

Enhancing Urban Security

Wireless Transmission
Solutions for the City of
Leh, Ladakh



CONNECTING YOUR WORLD

Introduction

Securing a vast and strategically sensitive area like Leh in Ladakh demands robust and reliable communication networks. Sai Defence Systems Pvt Ltd, in collaboration with Wavesight, provided wireless transmission solutions that connect CCTV cameras across the city to the Central Command and Control Centre. This system supports real-time video monitoring of critical zones, empowering local authorities to safeguard assets and maintain public safety while respecting the sensitive nature of the environment.

About the Client

- Sai Defence Systems Pvt Ltd, a reputable systems integrator specializing in security and wireless communication technologies.
- Awarded the contract to implement wireless transmission solutions supporting enhanced surveillance in Leh, Ladakh.
- Experienced in deploying technology solutions tailored for challenging and strategically sensitive locations.

The Challenge

- Connect a widespread network of CCTV cameras monitoring multiple high-security and sensitive locations in Leh.
- Ensure reliable video transmission using a combination of point-to-point and point-to-multipoint radios in challenging geographic and climatic conditions.
- Seamlessly integrate video feeds into the Central Command and Control Centre to provide comprehensive situational awareness.
- Maintain a secure, stable wireless network that supports critical surveillance with minimal disruption.
- Deliver a discreet, effective solution mindful of the region's strategic sensitivities.

Solution Overview

- Deployed a hybrid wireless transmission system combining point-to-point and point-to-multipoint radios to ensure extensive city-wide coverage.
- Integrated CCTV video streams into the Central Command and Control Centre for centralized, real-time monitoring.
- Designed robust, high-reliability links capable of withstanding Ladakh's topographical and weather challenges.
- Applied strong network security protocols to safeguard sensitive data and preserve operational integrity.
- Partnership model with Wavesight providing technology expertise and Sai Defence Systems executing implementation.

Results & Benefits

- Improved security oversight through consolidated, real-time video surveillance of critical zones.
- Facilitated swift detection and rapid response to any intrusion or illegal activities.
- Delivered reliable wireless transmission even under difficult geographic and environmental conditions.
- Offered a scalable solution allowing future upgrades as security requirements evolve.
- Empowered local authorities with advanced surveillance capabilities to maintain public safety effectively.

Why Wavesight?

- Extensive expertise in delivering secure, high-performance wireless transmission networks in sensitive and challenging environments.
- Proven capability supporting essential public safety communication infrastructure.
- Collaborative approach working with trusted integrators like Sai Defence Systems to ensure successful project delivery.
- Commitment to cost-effective, adaptive technological solutions tailored to client needs and regional constraints.